CUSTOMER STORY

AZ Groeninge: 23% less electricity in the Park building

AZ Groeninge, a large hospital in Kortrijk, chose Energis.Cloud in 2018 to monitor the heating, cooling, ventilation and solar of its 140,000 m² campus. The campus grew by 20% and still met its target; in 2023 the Park building used 23% less electricity.



CUSTOMER	SECTOR	COUNTRY
az groeninge kortrijk	Healthcare	Belgium

−23%

electricity of the Park building in 2023

140,000 m²

main campus on Kennedylaan

3.1 MWp

solar capacity in 2024

At a glance

- **Who:** AZ Groeninge (https://www.azgroeninge.be/), a large hospital in Kortrijk, Belgium. Its main campus on Kennedylaan covers 140,000 m² and uses as much energy as a small village.
- **What they set up:** since 2018, the heating, cooling and ventilation, the solar installations and the electricity of the campus on Energis.Cloud, chosen with the engineering firm Ingenium (https://www.ingenium.be/).
- **The result:** a campus 20% larger that still met its target of using no more energy than in 2015, 23% less electricity in the Park building in 2023, and 3.1 MWp of solar in 2024.

The challenge: a village's worth of energy, and too much data

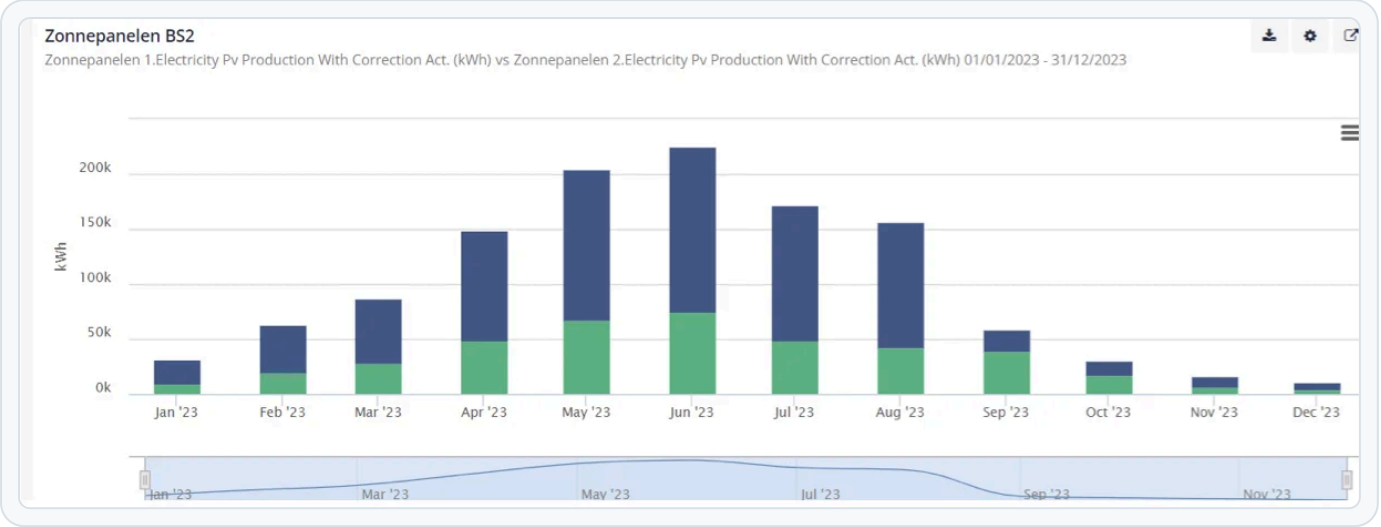
A hospital never closes, and its comfort, ventilation and medical equipment cannot be switched off to save energy. In 2018 AZ Groeninge was overwhelmed by the amount of data its installations produced, HVAC, solar and medical equipment, and needed precise control of what the campus consumed and produced.

With the study and support of Ingenium, an independent engineering firm that designs and optimises buildings and their technical installations, the hospital chose Energis.Cloud.

What they set up in Energis.Cloud

- **The largest consumers first.** Heating, cooling and ventilation are monitored continuously, so the team sees where energy is wasted and acts on it. See data integration.

- **Every installation on its own meter (sub-metering).** The central plants, the HVAC groups, the cooling machines and the cold rooms each have their own electricity meter, so a change shows on the installation that caused it. See metrics and KPIs.
- **Solar against demand.** The team reads the campus demand next to its solar production through the day, to decide when to use, store, buy or sell power.
- **Dashboards for each project.** Every saving initiative is tracked in dashboards, so its real result is measured. See dashboards.

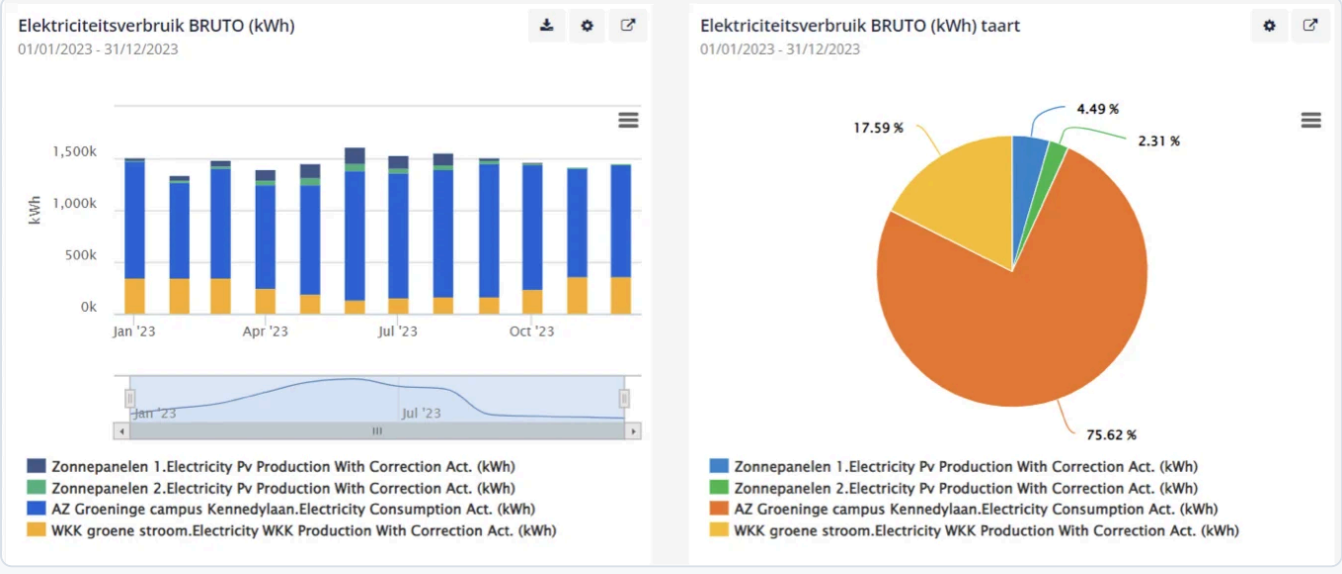


Monthly production of two solar installations on the campus in 2023. From the AZ Groeninge case study.

The results

	Before	With Energis.Cloud
Campus	Older buildings	A new campus 20% larger since 2020, with more comfort, ventilation, medical equipment and IT
Target	Back to the 2015 consumption	Met in 2020, despite the larger campus
Electricity		23% less in the Park building in 2023, with no loss of service or comfort
Solar		3.1 MWp of capacity in 2024

In 2023, the gross electricity of the Kennedylaan campus came 75.6% through the campus connection, 17.6% from cogeneration and 6.8% from two solar installations.



Where the campus electricity came from in 2023, month by month and over the year. From the AZ Groeninge case study.

In their words

> “Data is quickly and easily available in dashboards. Measurement is knowledge, so that we can develop new projects, but also control the results of the projects we have implemented.”
>
> **Thomas Van De Walle**, Energy Management Expert, AZ Groeninge

For whom

AZ Groeninge runs its own hospital buildings: the work we describe for multi-site organisations, healthcare.

Frequently asked questions

How can a hospital use less electricity without affecting care?

Start with the installations that run all the time, heating, cooling and ventilation, and meter them separately. AZ Groeninge tracked each initiative in its dashboards and cut the electricity of its Park building by 23% in 2023, with no loss of service or comfort.

What should a hospital monitor first?

Its largest consumers: heating, cooling and ventilation, then the solar and cogeneration it produces. Seeing production and demand side by side shows when to use the power on site.

How do you judge savings when the campus grows?

Compare against a fixed reference and track what changed. AZ Groeninge’s campus grew by 20% in 2020 with more equipment, and the hospital still brought its consumption back to its 2015 level.

Who chose Energis.Cloud for the hospital?

AZ Groeninge, after a detailed study with Ingenium, an independent engineering firm that designs and optimises the technical installations of buildings.